



SEQUENCE LISTING

<110> THE JOHNS HOPKINS UNIVERSITY
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UEKI, Takashi

<120> DIFFERENTIALLY METHYLATED SEQUENCES IN PANCREATIC CANCER

<130> JHU1700-1

<140> US 10/084,555

<141> 2002-02-25

<150> US 60/271,268

<151> 2001-02-23

<160> 114

<170> PatentIn version 3.1

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<223> n is any nucleotide

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 catagcctcc tacagtgaga aacgcccccc acccgacgtc gcgtcatct gtgtccccgc 180
 tgttgccggg gctctggtat ccacttgccg gccctatgtg gtggggatcc acccagagcc 240
 cagcgtcaag ttatacgggc gcttcaactca gcgtcagcca agaccagga agcgttctt 300
 gccgtttagg agacgtctgc aagagataaa aagctagccc acgatccacc cacaatcctc 360
 gtgtccccgg g 371

<210> 31
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 <212> DNA
 <213> Homo sapiens

<400> 31
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<210> 32
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 <212> DNA
 <213> Homo sapiens

<400> 32
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 agaaggcgag gatgcgcgag tacttcgtgt ccttgggtctc atcgtcacgt gtgagtatcg 180
 accaggtcat catcgcacgt ggtaccatag tggaagtagt tggcaaactc gctagagtct 240
 gctggaggaa cgagcccgcc gtaggacgga cacacctgag tgccccctcc acgcgagccc 300
 aaagcgggtg cagggcacct cccaccacat ttctggccaa agttcccatt tgaggcccg 360
 cctctcctct gcgcagtctt agagactggc gaggcacgag caaacgccct cttccctgag 420
 acctgacccc acccaccac ccggg 445

<210> 33
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 <212> DNA
 <213> Homo sapiens

<400> 33
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 ctcccattta tagctcagtt tccactgagc gcagtcctc taggacctgg gctgagcaag 120
 tttcttcac tctctccctt ccctcctct cacccttgct ctgccccca acccggcag 180
 ggcgaggtg tccaaccag ccgggacccc ctccctcctc gaaccaggt gttccggctc 240
 ccagacccca attgagctgg gggcgccac ccgcggggg atcccgccct gcgtcccca 300
 ttcacccgag tctcagccgc gggagtttct caacgggaag agggcgagc tcccggg 357

<210> 34
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 <212> DNA
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<400> 34
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 cctggccagg gacggggctg tccgaactgc cgtccagatt cccaaggga gacaaagacc 120
 cgaaacacag ctcaaagttt ccgagagcag tcacagcggg gccagggact ccagaagtgt 180

cagctccaac gactccagag ctgcacactg gcctctattc cccaccgcaa agccccagag 240
 ccgcagagac ttcgaaggca gccggagagg agagggccca ccgagcacta cggcgggtgc 300
 gcacgccccg gg 312

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 ctgacgtctg ggctggggag gagcgggtcc gagcgaggac ggagagggga cagagggaaa 180
 gggagggcggg tgtcttcctc aggaatttga gctggggatc tgcattcctgg ccattgcagt 240
 ccttttagcat cctcgccgag ccctgagcgc gctggaggct cgcaggctgc gccctcccag 300
 ggctgatgcc gcgtcctgct ccgccgttct gggacgtcgg ggacaaaagt ggaggagacg 360
 ggagagccccg gg 372

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 gccccgcgcc tcatcactta ccttgccctt agctatcaat tccatgatgt agccaaattc 180
 actcatctcc ccagactccg acatgtttac accccttcac aaactctgga ggaccgacgc 240
 ggggtgatcg aatttgctct ttcttttctc tttttctggt tttagtctga gttttgccga 300
 gctccccgcc cataagctgt taaccaggaa aagaggggaa gcgccgggga aagcaagaag 360
 cgggcttggg tgaaatgaag gccatcgagg gctccccgg 399

<210> 37
 <211> 307
 <212> DNA
 <213> Homo sapiens

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 tgtcttcggg gaaaccaagt ctgagtgagc gctgaagggg agtgtgcgga gcgtgccgtg 180

caccccgagc ccccgccctc attgcctctc gcctctctcc acctgcccc a tgatctgcgc 240
 cagggaccgg tcctctcccg tccgcaggct gtctaggtgg ccgttctggt ttgctgggac 300
 ccccggg 307

<210> 38
 <211> 331
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 ggcggggaag ggcgatctga cgatcagga gttgcgcccc tctctctggg cctcgtgaag 180
 gaacaagagc aattacagcg ctgggcccgc cacgtagtcc tggggctagg tgggccaat 240
 gctccggggc gcggggctgg agcgcggagg ctggagaggg aggaggacc tccgcggctc 300
 caggtctccc agctggaggc tcacgcccgg g 331

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 <212> DNA
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 tcttcgggga aaccaagtct gaggtagcgc tgaaggggag tgtgcggagc cgtgccgtgc 180
 accccgagcc ccccgccctc ttgcctctcg cctctctcca cctgccccat gatctgcgcc 240
 agggagccgg tcctctcccg tccgcagctg tctaggtggc cgttctggtt tgctgggccc 300
 cggg 304

<210> 40
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 <212> DNA
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 tcggggtgca cggcacgctc cgcacactcc cctccagcgc tcaactcagac ttggtttccc 180
 cgaagacaca ctctcgctcc cgccgcgtga ttgccactc cttccgctg cactccagcc 240
 tccttctcac ccttctgctg agcgcacagg cggctgcaa gtcggcaccg gtgcgcaccg 300

gcccggg 307

<210> 41
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 <212> DNA
 <213> Homo sapiens

<400> 41
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 gagaaggagg caggagtgca ggcggaagga gtgggcaatc agcggcgggga cgagagtgtg 120
 tcttcgggga aaccaagtct gagtgagcgc tgaaggggag tgtgcggagc cgtgccgtgc 180
 accccgagcc cccgcctca ttgcctctcg cctctctcca cctgcccacat gatctgcgcc 240
 agggagccgg tcctctcccg tccgcagctg tctaggtggc cgttctgggt tgctgggccc 300
 cggg 304

<210> 42
 <211> 479
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<220>
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<400> 42
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 ttcttgggct ggggacagtg aggtcatcgc tgccatcct ggagctcttg ctcctttcgg 180
 gtacctgttc cctctcccag agagaccccc agctgcatgc aggcctagtg ggctccacgg 240
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 agccgccgct acttctcac cctcttggcc ctgcatttcc acgtctcatg gagccaacga 360
 gagcaggggg tttgagccct tgtggaaatc tggggaggca ctgcttctcc ctccatgtga 420
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<210> 43
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<400> 43

gagttggtga tgttagatta g 21

<210> 44
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<220>
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<400> 44
 ttcccaaaaa aatcccaaatt tc 22

<210> 45
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<220>
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<400> 45
 ctccttccaa ataaatactt ac 22

<210> 46
 <211> 19
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<220>
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<400> 46
 agagaggagt ttagattgg 19

<210> 47
 <211> 21
 <212> DNA
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<220>
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<400> 47
 caaaaaaact aaaacotcaa c 21

<210> 48
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<220>
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<400> 48
 tggataaagg atgtttgggg ttg 24

<210> 49
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<400> 49
 ccctcccctt acccctaaat cc 22

<210> 50
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<220>
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<400> 50
 actccccctc actttattc 19

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<400> 51
 attatttttag tagaggtata taag 24

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<400> 52
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<400> 53
 aagagagggt tggagagtag 20

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 tacaccaact acccaactac ctc 23

<210> 58
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 <400> 58
 tttatttata taattttgtg tatgg 25

<210> 59
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<400> 59
 caccctcac ttactaaaa c

21

<210> 60
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<220>
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<400> 60
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23

<210> 61
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<400> 61
 accraacaaa aaacataaaa aaac

24

<210> 62
 <211> 24
 <212> DNA
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<400> 62
 ttattagagg gtggggtgga ttgt

24

<210> 63
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<400> 63
 ttattagagg gtggggcgga tcgc

24

<210> 64

<211> 21
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<400> 64
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21

<210> 65
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<400> 65
 ggattgggat gtcgagaac

19

<210> 66
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<400> 66
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26

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<400> 67
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19

<210> 68
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<220>
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31

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29

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<400> 70
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23

<210> 71
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<400> 71
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22

<210> 72
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<400> 72
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21

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<400> 73
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<210> 74
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 tctataaaatt actaaatctc ttca 24

<210> 76
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 ttaataggaa gagcggatag c 21

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 ctataaatta ctaaatctct tcg 23

<210> 78
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<210> 79
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<220>
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 <400> 79
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<210> 80
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<210> 81
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<220>
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 <400> 81
 taactaaaaa ttcacctacc gac 23

<210> 82
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<220>
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<210> 83
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<210> 84
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<220>
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 <400> 84
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<210> 85
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<220>
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 <400> 85
 ccctcccaaa cgccga 16

<210> 86
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<220>
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 <400> 86
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<210> 87
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 <400> 87
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<210> 88
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<220>
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<210> 89
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 <212> DNA
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 <210> 91
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 <210> 93
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 <400> 93
 ctacttcgcc taacctaacg 20
 <210> 94
 <211> 25
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<400> 94
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<210> 95
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<400> 95
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<210> 96
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<210> 97
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<220>
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<400> 97
 aaataaataa ataaaaaaaa acgcg 25

<210> 98
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<400> 98
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<210> 99
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<220>
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<400> 99
 ctaaaacat caccctaata ca 22

<210> 100
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<210> 101
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<400> 101
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<210> 102
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<400> 102
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<210> 103
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<220>
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<400> 103
 ctaaaaaaac aaacaaaaca tcca 24

<210> 104
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<400> 104

gtgggtagag gaatttaggc

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<210> 105

<211> 19

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<213> Artificial sequence

<220>

<223> PCR primer

<400> 105

aaaacgaacg aaacgtccg

19

<210> 106

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 106

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21

<210> 107

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> PCR primer

<400> 107

caaccccaaaa cccacaacca taa

23

<210> 108

<211> 22

<212> DNA

<213> Artificial sequence

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<223> PCR primer

<400> 108

gacccccgaa ccgcgaccct aa

22

<210> 109

<211> 23

<212> DNA

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ttacaaaaaa ccttccaaat aca

23

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<210> 112
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<400> 112
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<210> 113
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<400> 113
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<210> 114
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 <212> DNA
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<220>
 <223> PCR primer

<400> 114
 ccgaaaaccc cgcctcg 17